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SQL assignment

Questions:

1. What is the time period used?

```
query1*
Limit to 1000 rows
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27
28 • select DATEDIFF((select date from airbnb order by date desc limit 1),(select date from airbnb order by date limit 1))
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30
31
```

Result Grid			Filter Rows:	Search	Export:
DATEDIFF((select date from airbnb order by...					
▶	364				
▶					
▶					
▶					
▶					
▶					
Result 1					

2. How many properties have duplicate entries? Remove duplicate rows (say a row appears 3 times, remove 2 and keep 1)

3. For each property, find out the number of days the property was available and not available (create a table with listing_id, available days, unavailable days and available days as a fraction of total days)

```
query1*
Limit to 1000 rows

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31 • select listing_id as property, sum(case when available = 't' then 1 else 0 end) as Available,
32     sum(case when available = 'f' then 1 else 0 end) as Unavailable from airbnb
33     group by listing_id;
34
35
36
37
```

Result Grid

Filter Rows:

Q

Search

Export:

Fetch rows:

	property	Available	Unavailable	
▶	9273	311	147	
●	12147973	106	309	
●	8326439	749	32	
●	3075044	255	72	
●	13820571	365	334	
●	6976	268	166	
●	13926704	444	279	
●	1436513	224	222	
●	4107959	189	370	
●	7651065	195	162	
●	5940866	135	714	
●	12386020	72	246	
●	6436334	757	46	
●	5706985	338	35	
●	1147871	680	57	
●	2843445	332	25	
●	14885796	451	506	
●	753446	294	17	
●	1458081	325	260	
●	840408	221	152	

4. How many properties were available on more than 50% of the days? How many properties were available on more than 75% of the days?

```
query1*
Limit to 1000 rows

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41 • SELECT listing_id, percent FROM (
42     SELECT listing_id, (count(case when available = 't' then 1 end) / count(*)) * 100 AS PERCENT
43     FROM airbnb
44     GROUP BY listing_id
45 ) AS temp WHERE percent > 50;
46 • SELECT listing_id, percent FROM (
47     SELECT listing_id, (count(case when available = 't' then 1 end) / count(*)) * 100 AS PERCENT
48     FROM airbnb
49     GROUP BY listing_id
50 ) AS temp WHERE percent > 75;
51
52
```

Result Grid			
Filter Rows: Search			
Export: Fetch rows:			
	listing_id	percent	
▶	8326439	95.9027	
■	3075044	77.9817	
■	6436334	94.2715	
■	5706985	90.6166	
■	1147871	92.2659	
■	2843445	92.9972	
■	753446	94.5338	
■	12023024	95.1100	
■	2441095	89.0187	
■	1668313	82.5939	
■	1178162	79.9266	
■	225979	81.2698	
■	3420384	93.0521	
■	13433317	83.3735	
■	7252607	76.3021	
■	13908031	75.1891	
■	14564883	83.4656	
■	13884549	93.3905	
■	225834	80.4255	
■	12580274	76.2689	
■	321328	96.6245	
■	8326439	95.9027	

5. Create a table with max, min and average price of each property

```
query1*
Limit to 1000 rows

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62 • SELECT listing_id AS property, MAX(CAST(SUBSTRING(price, 2, 10) AS DECIMAL(10,2))) AS MAX,
63 MIN(CAST(SUBSTRING(price, 2, 10) AS DECIMAL(10,2))) AS Min, AVG(CAST(SUBSTRING(price, 2, 10) AS DECIMAL(10,2)))
64 AS Average FROM airbnb GROUP BY listing_id;
65
66
67
```

Result Grid					
Filter Rows:		Search		Export:	Fetch rows:
	property	MAX	Min	Average	
▶	9273	50.00	0.00	27.128821	
	12147973	25.00	0.00	9.614458	
	8326439	99.00	0.00	47.717029	
	3075044	75.00	0.00	14.162080	
	13820571	99.00	0.00	28.838340	
	6976	65.00	0.00	35.317972	
	13926704	75.00	0.00	20.282158	
	1436513	75.00	0.00	15.690583	
	4107959	98.00	0.00	41.892665	
	7651065	79.00	0.00	13.375350	
	5940866	99.00	0.00	8.713781	
	12386020	50.00	0.00	10.613208	
	6436334	200.00	0.00	80.437111	
	5706985	125.00	0.00	58.257373	
	1147871	125.00	0.00	38.849389	
	2843445	75.00	0.00	40.089636	
	14885796	110.00	0.00	34.366771	
	753446	80.00	0.00	43.237942	
	1458081	318.00	0.00	93.591453	
	849408	229.00	0.00	32.394102	

6. Extract properties with an average price of more than \$500

```
query1*
Limit to 1000 rows

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69
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71
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73
74 select listing_id ,Price from (
75     select avg(CAST(SUBSTRING(price, 2, 10) AS DECIMAL(10, 2))) as Price, listing_id
76     from airbnb
77     group by listing_id
78 )as temp where Price> 500 ;
79
```

Result Grid			
Filter Rows: Search			
	listing_id	Price	
▶	1810397	592.888889	
	1327725	642.253521	
	9894686	555.794521	
	7071883	530.308475	
	6881541	616.855263	
	13866156	555.737705	
	7395978	565.863014	
	14473323	549.150685	